2007 Kentucky Freight Transportation Conference





Frankfort, Kentucky May 15, 2007

Outline

- Global Perspectives
- Coastal Port Perspectives
- Inland Waterway Opportunities
- Kentucky's Riverports
- Kentucky Riverport Improvement Project
- Strategic Importance of All Modes





Note 40' containers on the left and 20' on the right

Global Trade



US Maritime Trade:
\$1 trillion of
domestic and
international freight

Projections

- ■international trade to double by 2020
- ■Container traffic to triple by 2020
- Latin American trade through Gulf to triple (or more) by 2020

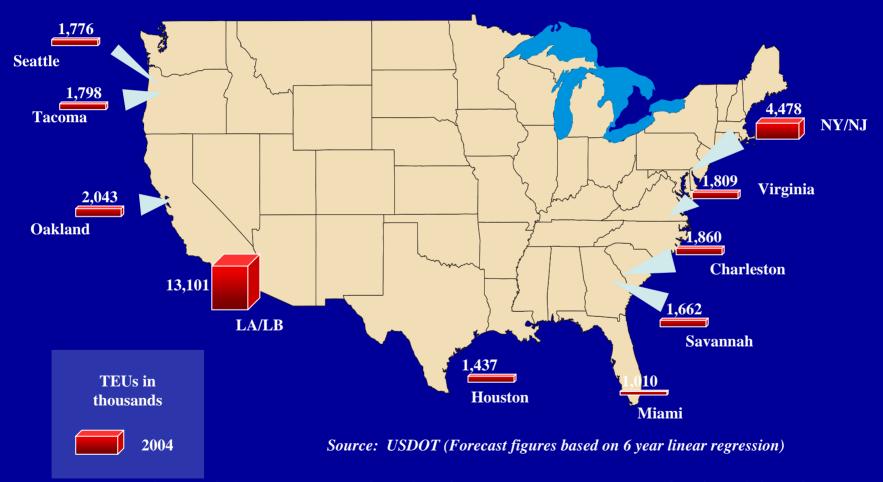




Panamax			Post Panamax	
Pre-1970	1970-1985	1985-2000	2000-2010	Post-2010
1,700 TEUs	2,300 TEUs	4,800 TEUs	8,000+ TEUs	13,000+ TEUs
<10 Boxes Wide	10 Boxes Wide	13-16 Boxes Wide	17 Boxes Wide	21 Boxes Wide
<30' Draft	33' Draft	44' Draft	48' Draft	44' Draft
450' Length	620' Length	900' Length	1,150' Length	1,350' Length

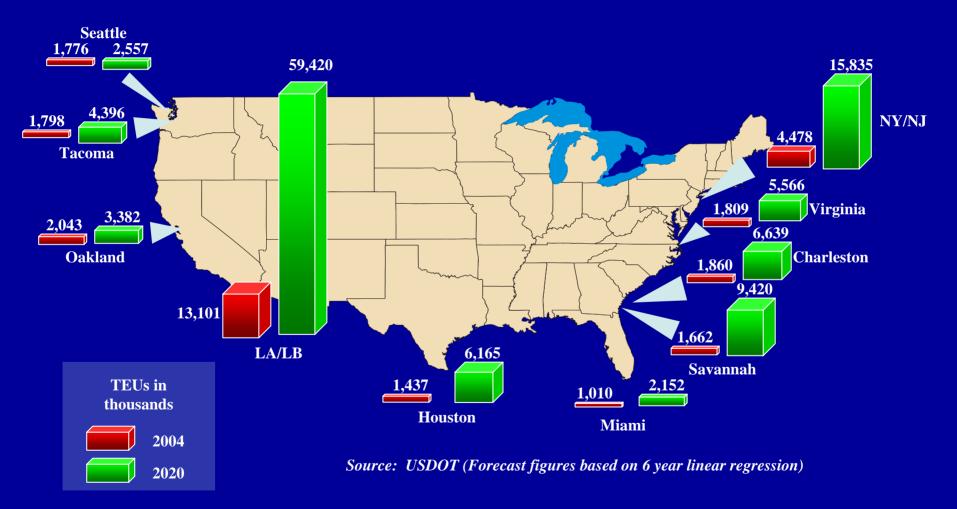
U.S. Maritime Container Trade Growth

Current



U.S. Maritime Container Trade Growth

Current and Future



The Inland Waterway System



Ports of Mobile and **New Orleans** are rapidly expanding container capabilities



The proposed Panama Canal Expansion will improve shipping opportunities between Far East & Gulf



- 1. Deepening/widening Atlantic entrance channel
- 2. New approach for Atlantic Post-Panamax locks
- 3. Atlantic Post-Panamax locks existing 110 x 1000 x 41.2 ft; new 180 x 1400 x 60 ft
- 4. Raise max Gatun Lake operating water level
- 5. Widening and deepening of the navigational channel of the Gatun Lake and the Culebra Cut
- 6. New approach channel for Post-Panamax locks
- 7. Pacific Post-Panamax locks with 3 water saving basins per lock chamber
- 8. Deepening and widening of the Pacific entrance channel

The Inland Waterway System



Credibility for Gulf Coast Container Ports at Mobile & New Orleans

Growth in global trade & congestion at ports

Mobile & New Orleans have expansion plans

Expanded Panama Canal



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What moves by inland river barge?

Today – heavy, bulky, oversize

Future – higher valued goods

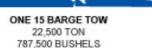
Compare...



Hanson Professional Services Inc.

Cargo Capacity

ONE BARGE 1,500 TON 52,500 BUSHELS 453,600 GALLONS

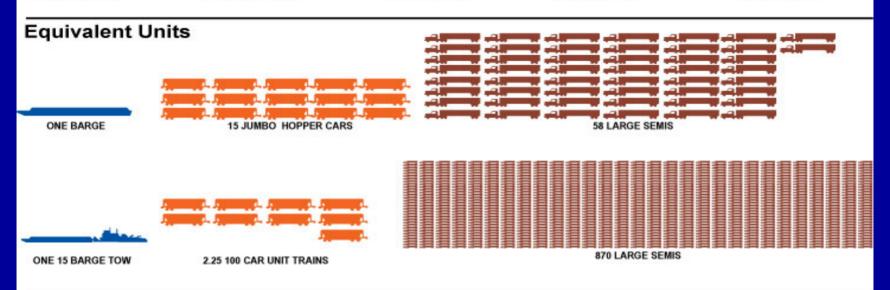


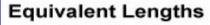
6,804,000 GALLONS

JUMBO HOPPER CAR 100 TON 3,500 BUSHELS 30,240 GALLONS

100 CAR TRAIN UNIT 10,500 TON 350,000 BUSHELS 3,024,000 GALLONS

26 TON 910 BUSHELS 7,865 GALLONS







.25 MILES



2.75 MILES



11.5 MILES (BUMPER TO BUMPER)

Source from lows Department of Transportation



FUEL EFFICIENCY

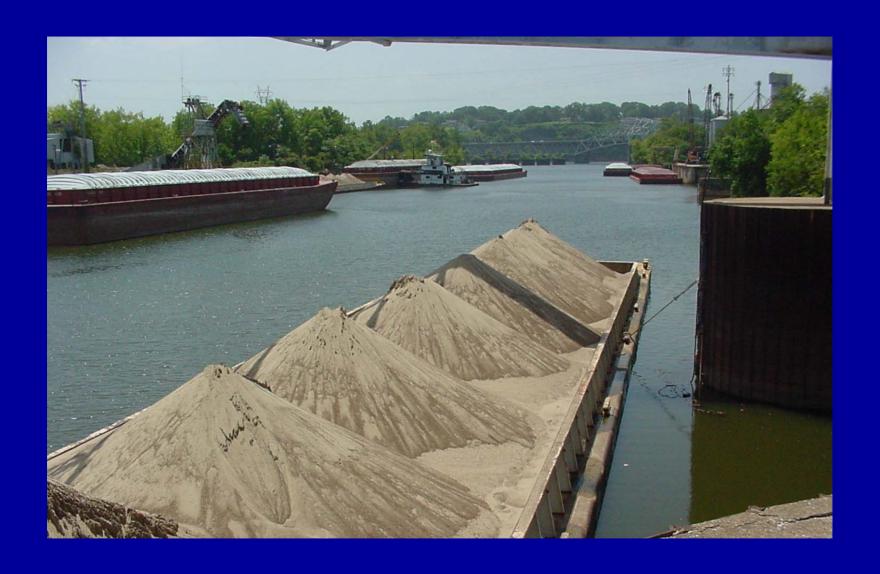
- 1 gallon of fuel can move
- 1 ton of cargo...



59 miles by truck

202 miles by train

514 miles by barge



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All modes of transportation are needed

Alabama Freight Mobility Study

Funded by US DOT Policy & Research

 Action plan for integrating inland waterways into freight transportation network

• Developments along I-65 corridor: autos, steel, container terminal at Mobile, others

• When the Mobile Container

Terminal looks like this

We could be looking at scenes on I-10 and I-65 like these



Government Policy Maker Interests

relieve congestion

conserve energy

highway capacity & maintenance

Private Sector Interests

Shipper = reduce costs, improve reliability

Carrier = ROI

Ports = increase business, economic development

Understanding the Business Transaction is Vital for Inland Ports

- How does the inland move fit into the business transaction for a global move?
- Who are the parties?
- Who makes the modal decisions?



- What are the contractual relationships? (follow the money)
- Understand the business transaction from customer perspective

To make COB a reality, must provide real cost savings and returns to private sector





To gain government support, must demonstrate benefits to society and environment

AFMS – Phase 1

Results to be released by US DOT May 23, 2007

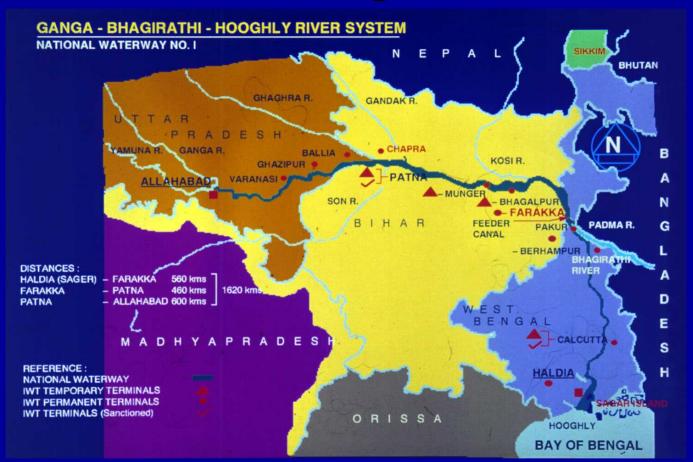
Looking around the world.....

India is Investing – and its Economy is Growing





NW1 Region of India

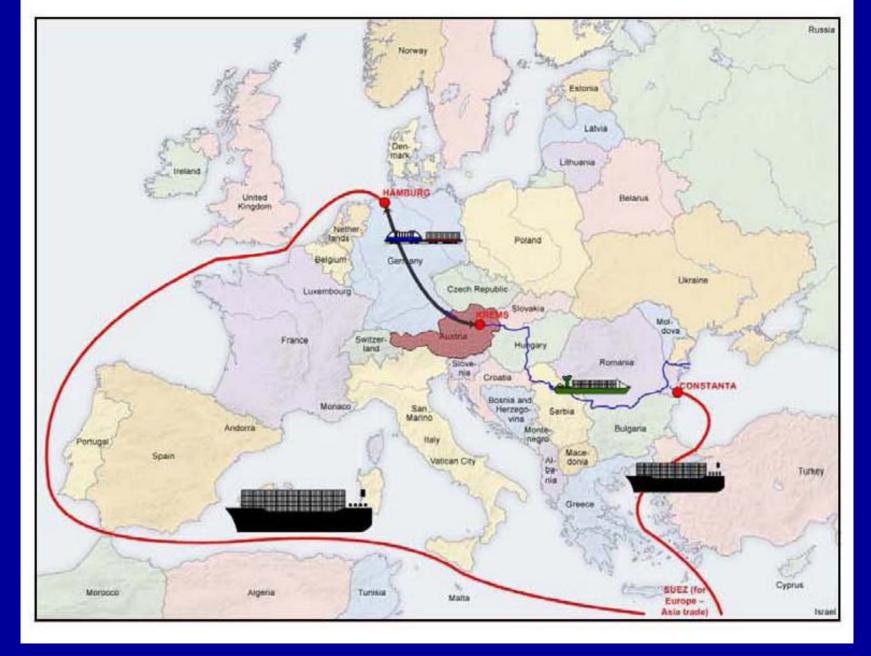


Photos Of IWT





And in Europe....



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Conclusions

- Alternative routing via Constanta and Danube highly attractive for trade between Asia and Central Europe:
 - Significant cost advantages when using specialised inland vessels
 - ⇒ Similar transit time for total supply chain
 - ⇒ Environmental balance very positive



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Next steps

- Distribution of final report.
- Involvement of overseas shipping companies and large industrial companies.
- Verification of inland navigation concept:
 - Availability of Danube vessels?
 - Substitute transport (high/low water, ice)?
 - Continental cargo (silo and tank containers)?
 - Intermediate ports in Hungary and Serbia?
 - National and EU-funding (Marco Polo II)?

• ...



Soon to come...also on the Danube







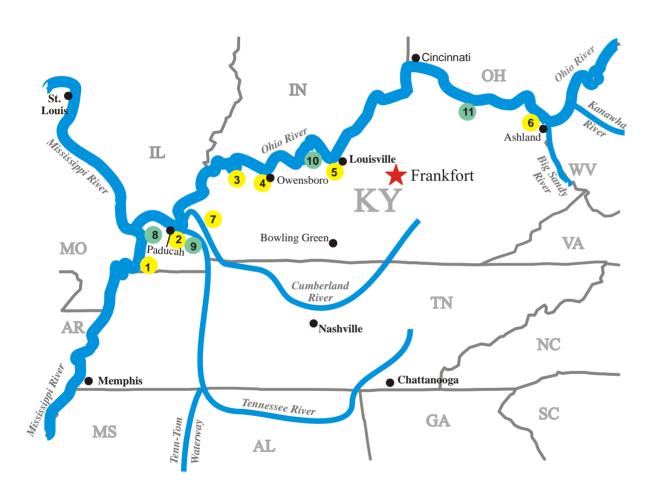


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Kentucky Initiative

- Roles for State Government in Ports and Waterways
- Collaborative approach including riverports and state officials
- Survey of programs in other states
- Visits with ports, assessment of needs

Kentucky Riverport Improvement Program – General Scope



Operating Ports

- 1. Hickman-Fulton County Riverport Authority
- 2. Paducah-McCracken County Riverport
- 3. Henderson County Riverport
- 4. Owensboro Riverport Authority
- 5. Louisville-Jefferson County Riverport Authority
- 6. Greenup-Boyd County Riverport Authority
- 7. Eddyville Riverport & Industrial Dev. Authority

Developing Ports

- 8. Wickliffe-Ballard County Port Authority
- 9. Marshall County-Calvert Riverport Authority
- 10. Meade County Riverport
- 11. Maysville-Mason County Port Authority

Kentucky Riverports support jobs



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Kentucky Initiative

Freight transportation, congestion mitigation, economic competitiveness are all themes

Draft report in August 2007

Summary

- Global trade is growing
- Traffic congestion is increasing
- Waterways can help reduce congestion and enhance competitiveness of US economy
- Kentucky is blessed with access to Ohio and Missisippi Rivers
- Kentucky's Riverports are vital asset